



10-02-02

2053

AMENDMENT TRANSMITTAL LETTER

Docket No.
10270.0002/P002

Application No.
10/050,539-Conf. #7739

Filing Date
January 18, 2002

Examiner
L. Nguyen

Art Unit
2853

Applicant(s): Sunao Ishizaki

Invention: DRIVE CIRCUIT OF INK JET HEAD AND DRIVING METHOD OF INK JET HEAD

TO THE COMMISSIONER FOR PATENTS

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED

	Claims Remaining After Amendment	Highest Number Previously Paid	Number Extra Claims Present	Rate	
Total Claims	8	- 20 =		x	0.00
Independent Claims	5	- 5 =		x	0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					
Other fee (please specify):					
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT:					0.00

☒ Large Entity

☐ Small Entity

☒ No additional fee is required for this amendment.

☐ Please charge Deposit Account No. _____ in the amount of \$ _____.
A duplicate copy of this sheet is enclosed.

☐ A check in the amount of \$ _____ to cover the filing fee is enclosed.

☒ Payment by credit card. Form PTO-2038 is attached.

☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 50-2215
as described below. A duplicate copy of this sheet is enclosed.

☒ Credit any overpayment.

☒ Charge any additional filing or application processing fees required under 37 CFR 1.16 and 1.17.

Michael J. Scheer
Michael J. Scheer
Attorney Reg. No.: 34,425

Dated: September 30, 2002

DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP
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(212) 896-5470

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV059556527US, in an envelope addressed to: Box Non-Fee Amendment, Commissioner for Patents, Washington, DC 20231, on the date shown below.

Dated: September 30, 2002

Signature: *Michael J. Scheer* (Michael J. Scheer)



FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 110.00

1 Complete if Known

Application Number	10/050,539-Conf. #7739
Filing Date	January 18, 2002
First Named Inventor	Sunao Ishizaki
Examiner Name	L. Nguyen
Group Art Unit	2853
Attorney Docket No.	10270.0002/P002

METHOD OF PAYMENT (check all that apply)☐ Check ☒ Credit Card ☐ Money Order ☐ Other ☐ None☐ Deposit Account

Deposit Account Number

50-2215

Deposit Account Name

Dickstein Shapiro Morin & Oshinsky LLP

The Commissioner is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$) 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
8	-20** =		0.00
Independent Claims	5	-5** =	0.00
Multiple Dependent			

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description
105	130	205	65	Surcharge - late filing fee or oath
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.
139	130	139	130	Non-English specification
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination
112	920*	112	920*	Requesting publication of SIR prior to Examiner action
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action
115	110	215	55	Extension for reply within first month
116	400	216	200	Extension for reply within second month
117	920	217	460	Extension for reply within third month
118	1,440	218	720	Extension for reply within fourth month
128	1,960	228	980	Extension for reply within fifth month
119	320	219	160	Notice of Appeal
120	320	220	160	Filing a brief in support of an appeal
121	280	221	140	Request for oral hearing
138	1,510	138	1,510	Petition to institute a public use proceeding
140	110	240	55	Petition to revive - unavoidable
141	1,280	241	640	Petition to revive - unintentional
142	1,280	242	640	Utility issue fee (or reissue)
143	460	243	230	Design issue fee
144	620	244	310	Plant issue fee
122	130	122	130	Petitions to the Commissioner
123	50	123	50	Processing fee under 37 CFR 1.17(q)
126	180	126	180	Submission of Information Disclosure Stmt
581	40	581	40	Recording each patent assignment per property (times number of properties)
146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))
149	740	249	370	For each additional invention to be examined (37CFR 1.129(b))
179	740	279	370	Request for Continued Examination (RCE)
169	900	169	900	Request for expedited examination of a design application
				Extension for response within first month

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 110.00

SUBMITTED BY

Name (Print/Type) Michael J. Scheer

Signature

Michael J. Scheer

Registration No. (Attorney/Agent)

34,425

Complete (if applicable)

Telephone (212) 896-5472

Date

September 30, 2002

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Dated: September 30, 2002

Signature:

(Michael J. Scheer)

Docket No.: I0270.0002/P002
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Sunao Ishizaki

Application No.: 10/050,539

Group Art Unit: 2853

Filed: January 18, 2002

Examiner: L. Nguyen

For: DRIVE CIRCUIT OF INK JET HEAD AND
DRIVING METHOD OF INK JET HEAD

AMENDMENT

Box Non-Fee Amendment

Commissioner for Patents
Washington, DC 20231

Dear Sir:

In response to the Office Action dated May 31, 2002 (Paper No. 6), please amend the above-identified U.S. Patent application as follows:

In the Claims

1. (Amended) A drive circuit for an ink jet head having nozzles, pressure generating chambers filled with ink to be discharged from said nozzles, and piezoelectric actuators corresponding to respective pressure generating chambers, said ink jet head discharging ink droplets from said nozzles by changing volumes of said pressure generating chambers in response to a drive waveform signal applied to said piezoelectric actuators, said drive circuit comprising:

a waveform generator generating said drive waveform signal;

a power amplifier amplifying said drive waveform signal supplied to a first input of said power amplifier and outputting said drive waveform signal to said piezoelectric actuators; and